



# FURNACE USER INSTRUCTIONS

For Package Gas Electric Units

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### WARNING:

#### FIRE OR EXPLOSION HAZARD

Failure to follow safety warnings exactly could result in serious injury, death or property damage.

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- WHAT TO DO IF YOU SMELL GAS
  - Do not try to light any appliance.
  - Do not touch any electrical switch; do not use any phone in your building.
  - Leave the building immediately.
  - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
  - If you cannot reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency or the gas supplier.

To the installer: leave this manual with the unit.

To the consumer: read all instructions in this manual. Keep all manuals for future reference.

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Whirlpool® Home Cooling and Heating  
7901 S.W. 6th Court  
Plantation, Florida 33324



# FURNACE SAFETY

## Your safety and the safety of others are very important.

We have provided many important safety messages in this manual and on your appliance. Always read and obey all safety messages.



This is the safety alert symbol.

This symbol alerts you to potential hazards that can kill or hurt you and others.

All safety messages will follow the safety alert symbol and either the word "DANGER" or "WARNING." These words mean:

**⚠ DANGER**

**You can be killed or seriously injured if you don't immediately follow instructions.**

**⚠ WARNING**

**You can be killed or seriously injured if you don't follow instructions.**

All safety messages will tell you what the potential hazard is, tell you how to reduce the chance of injury, and tell you what can happen if the instructions are not followed.

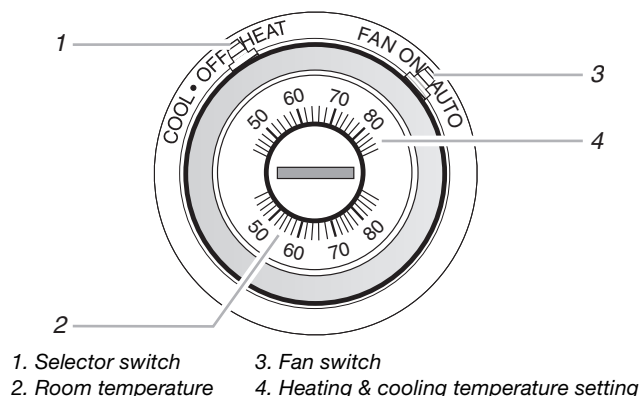
## IMPORTANT SAFETY INSTRUCTIONS

- The furnace area must be kept clear and free of combustible materials, gasoline, and other flammable vapors and liquids.
- For proper and safe operation, the furnace needs air for combustion and ventilation. Do not block or obstruct air openings on the furnace, air openings to the area in which the furnace is installed, and the spacings around the furnace.
- This furnace is equipped with an ignition device which automatically lights the burners. See the "Gas Furnace Operation" section for information on lighting and shutting down the furnace.
- Should the gas supply fail to shut off or if overheating occurs, shut off the gas valve to the furnace before shutting off the electrical supply.
- Do not use the furnace if any part has been under water. A flood-damaged furnace is extremely dangerous. Attempts to use the furnace can result in fire or explosion. A qualified service agency should be contacted to inspect the furnace and to replace all gas controls, control system parts, electrical parts that have been wet, or the furnace if deemed necessary.
- Examine the furnace installation at least once a year to determine that:
  - All flue gas carrying areas external to the furnace, (i.e. chimney, vent connector) are clear and free of obstructions.
  - The exhaust vent is in place.
  - The return air duct connection is physically sound, and sealed to the furnace casing.
  - The physical support of the furnace is sound without sagging, cracks, gaps, etc. around the base so as to provide a seal between the support and the base.
  - There are no obvious signs of deterioration of the furnace.
  - The pilot and burner flames are in good adjustment. See the "Gas Furnace Maintenance" section.
- It is recommended that the furnace should be inspected by a qualified person at least once per year.

## SAVE THESE INSTRUCTIONS

# FURNACE OPERATION

## Thermostat Control



There are many types and styles of thermostats. Yours may look different from the one shown, depending on the type of thermostat installed with the system. However, almost all thermostats perform the same basic functions.

There are two switches located on the thermostat. One switch controls the heating and cooling functions. The other switch is for FAN operation, either continuous or automatic.

Also on the thermostat is the temperature range for the desired heating and cooling temperatures.

## Lighting the Furnace

### ⚠ WARNING



#### Electrical Shock Hazard

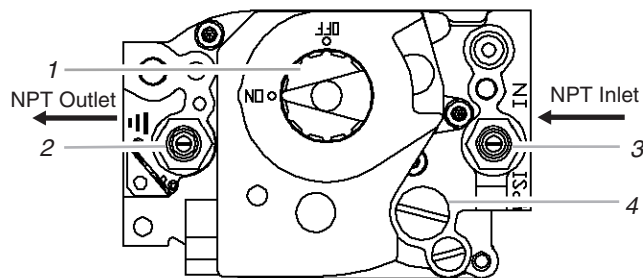
**Disconnect power before servicing.**

**Replace all parts and panels before operating.**

**Failure to do so can result in death or electrical shock.**

1. Set the house thermostat control(s) to the lowest setting.
2. Disconnect power.
3. Remove the burner and control compartment access panel (2 screws).
4. This appliance is equipped with an automatic ignition device. Do not try to light the burners by hand.

## Gas Control Valve



1. Regulator adjusting cap
2. 1/8 in. Inlet pressure tap
3. 1/8 in. Outlet pressure tap
4. Gas control knob

5. Turn the gas control knob to ON.
  6. Replace the burner and control compartment access panel (2 screws).
  7. Reconnect power.
  8. Set the thermostat to the desired setting.
- NOTE:** The outdoor fan and compressor will be off for approximately 6 minutes following a previous operation or the interruption of electrical power.
9. If the furnace will not operate, call a qualified person.

## Shutting Down the Furnace

1. To shut down the furnace, set all the household thermostat controls to OFF or to the lowest setting (see Thermostat Control graphic).
2. Disconnect power.
3. Remove the burner and control compartment access panel (2 screws).
4. Turn the gas control knob to OFF. See "Gas Control Valve."
5. Replace the burner compartment access panel (2 screws).

## Adjusting the Controls

### To Turn the System On or Off

- Move the selector switch to HEAT or COOL to turn the system on.
- Move the selector switch to OFF to turn the system off.

### To Select the Temperature

Move the thermostat dial or lever to select the temperature you would like the system to maintain.

### To Operate the Fan

You may wish to increase your comfort by setting your system for continuous circulation of the indoor air. You may do this by moving the fan switch on the thermostat.

- Move the fan switch to ON so the fan will operate continuously.
- Move the fan switch to AUTO for the fan to operate only during heating and cooling periods.

# FURNACE MAINTENANCE

## ⚠ WARNING



### Explosion Hazard

Furnace must be installed and serviced by a qualified person.

Examples of a qualified person include:

licensed heating personnel,  
authorized gas company personnel.

Read and follow all instructions provided for installation, adjustment, service, alteration, or maintenance.

Failure to follow these instructions can result in death, explosion, fire, or carbon monoxide poisoning.

## ⚠ WARNING

**ELECTRICAL SHOCK, FIRE OR EXPLOSION HAZARD**  
Failure to follow safety warnings exactly could result in dangerous operation, serious injury, death, or property damage.

Improper servicing could result in dangerous operation, serious injury, death or property damage.

- Before servicing, disconnect all electrical power to furnace.
- When servicing controls label all wires prior to disconnecting. Reconnect wires correctly.
- Verify proper operation after servicing.

**IMPORTANT:** Servicing should include the items covered in this section.

Your gas furnace is designed to give many years of efficient, satisfactory service. There are routine maintenance steps you should take to keep your furnace operating efficiently. This maintenance will assure longer life, lower operating costs, and fewer service calls.

In addition to the maintenance procedures listed in this manual, there are also other service and maintenance procedures that require the skills of a qualified person.

- The gas burners should be cleaned.
- The furnace ventilation system should be inspected and serviced.
- Lubrication of the bearings in the circulating air blower motor and the combustion blower motor is not required.

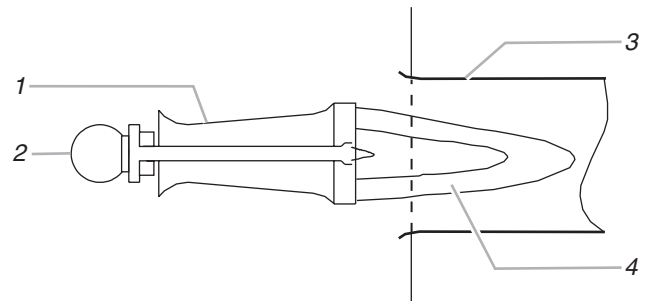
## Burner Flame

**IMPORTANT:** Do not attempt to adjust the burner flame.

While the furnace is in operation, observe the main burner flames. Compare these observations to “Typical Flame Appearance” to determine if proper flame adjustment is present. If your observations indicate improper flame adjustment, call a qualified person.

Distorted flame or yellow tipping on natural gas flames, or long, yellow tips on propane flames, may be caused by lint or dirt accumulation, or obstructions over the main burner orifice. Dirt or lint can get inside the burner or burner ports, and into the air inlet between the burner and manifold pipe.

### Typical Flame Appearance



1. Burner

2. Gas manifold

3. Heat exchanger

4. Burner flame (blue only)

## Vent Maintenance

### IMPORTANT:

- Should the venting become blocked at anytime, your furnace is equipped with a special safety control to prevent operation of the furnace until the condition has been corrected. If the venting is blocked, contact a qualified person.
- Keep the outside area where the vent terminates clear from any obstructions which might block or impede the venting of the furnace.

## Electric Cooling Maintenance

- Leaves and other large obstructions should be gently removed from the condensing unit surfaces without damaging the fin surface of the coil.
- Should the internal evaporator coil become dirty, it will restrict airflow. Call a qualified person to gently clean the coil surface without damaging the fin surface of the coil.
- An annual inspection by a qualified person should be performed to ensure continued high-quality performance.

## Filter Maintenance

Your furnace may use either a disposable filter or a cleanable filter.

### IMPORTANT:

- Do not operate your furnace without a filter. A filter is required to protect the coil, blower, and internal parts from excessive dirt and dust.
- The air filter should be inspected at least every 6 weeks and cleaned or replaced as required.

**NOTE:** Dirty filters are the most common cause of inadequate heating or cooling performance and can sharply increase the operating costs of your unit.

- When changing any furnace filter, it is important to measure the filter being replaced and to replace it with the same size and type of filter.
- Install new/clean filters with the arrows on the side edges of the filter pointing in the direction of airflow.

## Replacing/Cleaning Filters

### Disposable Filter(s)

If a disposable filter is used, replace with the same filter type and size.

### Cleanable Filter(s)

- Cleanable filters may be replaced with disposable filters. See the Minimum Filter Requirements chart when selecting the proper size and quantity of disposable filters.
- To clean the filter, follow the filter manufacturer's instructions.

## Minimum Filter Requirements

- Areas and dimensions shown in the Minimum Filter Requirements Chart are based on a face velocity of 325 ft./min. for disposable filters and 525 ft./min. for cleanable filters.
- Typical filter sizes are shown; however, any combination of filters whose area equals or exceeds the minimum area shown is satisfactory.

Minimum Filter Requirements Chart			
Nominal Cooling Tons	Nominal Airflow Range (CFM)	Minimum Filter Sizes	
		Disposable Filters	Cleanable Filters
2	700 - 900	(1) 20 x 20	(1) 15 x 20
2½	875 - 1125	(1) 20 x 25	(1) 15 x 20
3	1050 - 1350	(1) 25 x 25	(1) 20 x 20
3½	1225 - 1575	(2) 15 x 25	(1) 20 x 20
4	1400 - 1800	(2) 20 x 20	(1) 25 x 25
5	1750 - 2250	(2) 20 x 25	(1) 25 x 25

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# TROUBLESHOOTING

First try the solutions suggested here and possibly avoid the cost of a service call.

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## Unit fails to operate

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### ■ Check the following:

Is the main switch that supplies power to the unit in the ON position?

Is the manual gas valve in the OPEN position?

Has a fuse blown or has the circuit breaker tripped? If problem continues, call an electrician.

Is the thermostat set properly? See “Adjusting the Controls.”

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## Unit is operating but not providing complete comfort

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### ■ Check the following:

Is the thermostat set properly? See “Thermostat Control.”

Is the filter clean? Replace or clean filter. See the “Filter Maintenance” section.

Is the air able to circulate freely throughout your home? Do not block supply registers or return grilles with furniture or rugs.

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# ASSISTANCE OR SERVICE

If you need further assistance, you can write to the below address with any questions or concerns:

Whirlpool® Home Cooling and Heating  
7901 Southwest 6th Street  
Plantation, FL 33324

Please include a daytime phone number in your correspondence.

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## Replacement Parts

To order replacement parts contact your Whirlpool® Home Cooling and Heating dealer.

### Gas Control Group

- |            |                              |
|------------|------------------------------|
| ■ Manifold | ■ Flame sensor               |
| ■ Burner   | ■ Gas valve/Ignition control |
| ■ Orifice  | ■ Spark igniter              |

### Heat Exchanger Group

- Primary heat exchanger

### Blower Group

- |                           |                      |
|---------------------------|----------------------|
| ■ Blower housing assembly | ■ Blower motor mount |
| ■ Blower wheel            | ■ Capacitor          |
| ■ Blower motor            |                      |

### Inducer Group

- |                   |                  |
|-------------------|------------------|
| ■ Pressure switch | ■ Inducer blower |
|-------------------|------------------|

### Electrical Group

- |                  |                             |
|------------------|-----------------------------|
| ■ Limit control  | ■ Rollout switch            |
| ■ Blower control | ■ Auxiliary limit (if used) |
| ■ Transformer    |                             |

### Air Conditioner Group

- |                   |                   |
|-------------------|-------------------|
| ■ Start capacitor | ■ Condenser fan   |
| ■ Contactor       | ■ Condenser coil  |
| ■ Compressor      | ■ Evaporator coil |

## **Limited Warranty**

September 2002

*This warranty gives you specific legal rights and you may have other rights which vary from state/province to state/province. This warranty applies to U.S. and Canada only.*

**Warrantor: Allied Air Enterprises Inc., 355 Millennium Dr., Orangeburg, SC 29115**

Products are available under the following brand names: Whirlpool, Whirlpool Gold

**IF SOMETHING GOES WRONG, CONTACT THE WHIRLPOOL HOME COOLING & HEATING DEALER FROM WHOM YOU PURCHASED YOUR EQUIPMENT. IN MOST CASES, YOUR DEALER WILL BE ABLE TO CORRECT THE PROBLEM, BUT IF HE/SHE IS NOT ABLE TO DO SO, YOU SHOULD CONTACT TRADEWINDS DISTRIBUTING DIRECTLY IN WRITING AT THE FOLLOWING ADDRESS:**

**Whirlpool® Home Cooling and Heating  
7901 S.W. 6th Court  
Plantation, Florida 33324**

### **General Warranty**

Subject to the limitations stated in this warranty, we warrant the covered equipment for residential use, when installed, operated and maintained according to the manufacturer's instructions, to be free of defects in workmanship or materials for a period of 5 years (1 year for commercial use) from the time of initial installation. We will replace any defective component without cost or expense to you except for the costs of diagnosis, delivery and labor for removing, servicing and/or replacing the parts or unit.

**These package rooftop units carry a limited 10-year warranty on the heat exchanger. The WPG1 series units carry a 5-year limited warranty on the compressor. The WPG2 series units carry a 10-year limited warranty on the compressor. Limited warranties apply to the original owner in private owner-occupied residences.**

### **Warranty Begins**

The warranty period begins when the installation is complete and the product is ready to operate. You must be able to verify this date whenever a warranty claim is made. Original bill of sale, installer's invoice or other similar document will suffice. If the beginning date cannot be verified, we will consider warranty coverage to begin 6 months after the date the product was shipped from our factory.

### **Limitations on Implied Warranties**

**Implied warranties of merchantability or, to the extent applicable, fitness for a particular purpose are excluded to the extent legally permissible and are in any event limited to 5 years, or the shortest period allowed by law. Some states/provinces do not allow limitations or exclusions on how long an implied warranty of merchantability or fitness lasts, so the above limitations or exclusions may not apply to you.**

### **Only Warranty**

**This written Limited Warranty is the only warranty made by the warrantor; this warranty is in lieu of and excludes all other warranties by the warrantor, express or implied. The warrantor does not authorize any person to provide on its behalf any other warranty or to assume for it any further obligation in connection with the warranted product.**

### **What is NOT Covered by Any Warranty**

1. Cabinets or cabinet pieces.
2. Normal maintenance items such as filters, fan belts, fuses or other consumable items.
3. Damage caused by misuse, failure to maintain properly, accidents or acts of God.
4. External wiring, piping, venting or attachment of accessory products not integral to our product, including without limitation, humidifier, air cleaner, vent damper, thermostat or other mechanical devices not manufactured by the warrantor.
5. Products that have been operated in a corrosive atmosphere or otherwise in contact with corrosive materials where a concentration of acids, halogenated hydrocarbons or other corrosive elements such as urine, salt, etc. causes deterioration to metal surfaces or integral components. NOTE: Operation in a corrosive atmosphere is considered misuse and voids this warranty.
6. Products that have NOT been installed, used and maintained in accordance with our published installation instructions, applicable local, state/provincial or national codes, and/or ACCA published standards.
7. Products that have NOT been installed by competent, qualified installers.
8. Products that have been moved from their original place of installation.

### **Warranty on Replacement Components**

Any replacement product or component furnished by us will assume the remaining (unused) portion of the Limited Warranty.

### **Consequential Damages**

The warrantor shall not be responsible for any accidental consequential damages caused by any defect in the product. Some state/provinces do not allow the exclusion or limitations of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

NOTE: After the first year, in the event that a gas heat exchanger is no longer being manufactured by the warrantor, the warrantor will allow a credit equal to the then current wholesale price of an equivalent heat exchanger towards the purchase of a new Whirlpool gas furnace.

This product must be installed, used, and cared for in accordance with the instruction manual. You are responsible for required periodic maintenance or service, such as changing or cleaning of air filters and lubrication or cleaning of components. **Failure to properly install, operate or maintain your unit voids this warranty.**

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**Keep this book and your sales slip together for future reference. You must provide proof of purchase or installation date for in-warranty service.**

Write down the following information about your furnace to better help you obtain assistance or service if you ever need it. You will need to know the complete model and serial number. You can find this information located on the rating plate on the outside panel.

Dealer name \_\_\_\_\_

Address \_\_\_\_\_

Phone number \_\_\_\_\_

Model number \_\_\_\_\_

Serial number \_\_\_\_\_

Installation date \_\_\_\_\_